NetSure™ 722

-48V DC Bulk Output Power System

Key Features

- Increased system efficiency, over 96%
- Expand capacity on live site without system interruption
- Increased power in existing footprint
- Eliminates rectifier legacy support issues
- Intelligent interface between existing system and new system controller
- Enables connection to remote monitoring (SNMP and web)
- Safety Compliance - NEBS Level 3 certified; UL 60950 Recognized

High efficiency 3500 watt constant power rectifiers reduce energy costs and heat loss.

Description

The NetSure™ 722 Bulk Output Power System is intended for use to expand or replace legacy -48V DC rectifiers while retaining the site's existing distribution power board. It can be used with any -48V DC power system, regardless of vendor or plant type. Accommodating up to twenty-nine high efficiency 3500 watt rectifiers per system, the NetSure™ 722 provides up to 2000 amps of current for -48 volt systems. The basic components of the system include the ACU+ control unit, a main module mounting shelf which houses the ACU+ and five rectifiers, and up to four expansion shelves that accommodate six rectifiers each.

The NetSure™ 722 system contains a powerful, microprocessor-based control system capable of monitoring and controlling all of the rectifiers in the system. The ACU+ controller also provides output alarming as well as monitoring of external alarms and signals. It features a 4 x 16-character alphanumeric display, which can be activated at the touch of a keypad, and remote access via Ethernet is provided with internal web pages and SNMP.

Application

The NetSure™ 722 system is ideal for replacement or expansion of legacy rectifiers up to 2000 amps at -48V DC.

NetSure™ 722 Bulk Output Power System

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Technical Specifications

System Features	
System Voltage, Nominal	-48 VDC (-42.0 VDC to -58.0 VDC range)
Control Microprocessor	ACU+

Rated Output Capacity	
Main Shelf (with ACU+)	365 amps at -48 VDC
Expansion Shelf	438 amps at -48 VDC
System	2000 amps
Rectifier	3500 W (R48-3500e)

Physical Characteristics	
Mounting Width	23 inches (584 mm)
Mounting Depth	18.8 inches (478 mm)
Height	5.22 inches (133 mm)
Front Projection	6.0 inches (152 mm)
Weight	Main Shelf: 30.0 lb. (13.6 kg) Expansion Shelf: 28.0 lb. (12.7 kg) ACU+: 2.2 lb. (1.0 kg) Rectifier: 7.0 lb. (3.2 kg)

Environmental	
Operating Temperature	-40 °C to 65 °C (-40 °F to 149 °F) with derating above 45 °C (113 °F)
Storage	-40 °C to 85 °C (-40 °F to 185 °F)
Humidity	0% to 95% relative humidity, non-condensing
Altitude	-200 ft. to 10,000 ft. (-61 m to 3048 m), derate 3 °C per 1000 ft. above 5000 ft.
Ventilation	Rectifiers are fan-cooled front to rear
EMI/RFI Suppression	Conforms to FCC rules Part 15, Subpart B, Class B and EN55022 Class B, radiated and conducted
Safety Compliance	Recognized to UL60950-1; CAN/CSA 22.2 No. 60950-00; NEBS Level 3 Certified

Rear View (Covers Removed) DC Output and AC Input Connections

R48-3500e – eSure™ Rectifier

M820D – ACU+ Controller

Ordering Information

Part Number	Description
582127100	NetSure™ 722 DC power system
1M820DNA	ACU+ controller
1R483500E	3500 watt eSure™ rectifier
588705000	Power shelf

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